

L Number	Hits	Search Text	DB	Time stamp
1	2827	sorensen-\$in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:37
2	5095	larsen-\$in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:37
3	1349	johansen-\$in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:37
5	9218	sorensen-\$in. or larsen-\$in. or johansen-\$in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:37
4	1	sorensen-\$in. and larsen-\$in. and johansen-\$in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:38
6	16	cua with (anticodon or anti-codon)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:53
7	2	(cua with (anticodon or anti-codon)) and (sorensen-\$in. or larsen-\$in. or johansen-\$in.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:38
11	1	"dsm 12086" or "dsm 12109" or "chcc4146" or "FA4-1-1"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:47
10	27	"DSM 12087" or pfg1 or pfg-1 or pfg1.1 or pfg-1.1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:49
12	1	"dsm 12088"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:49
13	3	pfg1.1 or pfg-1.1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:50
14	0	"DSM 12091" or "dsm 12108"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:50
15	1	pFG100 or pFG-100 or pFG200 or pFG-200	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:52
16	7473	lactococc\$4 or lactis	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:52
17	2	(cua with (anticodon or anti-codon)) and (lactococc\$4 or lactis)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:52

18	11	cua with suppressor	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:53
19	2	(cua with suppressor) and (lactococc\$4 or lactis)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:54
20	376	amber with suppressor	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:54
21	29	(amber with suppressor) and (lactococc\$4 or lactis)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:54
22	4	(amber with suppressor) same (lactococc\$4 or lactis)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/28 06:54

L5 ANSWER 1 OF 3 MEDLINE on STN DUPLICATE 1
 ACCESSION NUMBER: 2000208815 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 10742196
 TITLE: A food-grade cloning system for industrial strains of
 Lactococcus lactis.
 AUTHOR: **Sorensen K I; Larsen R;** Kibenich A;
 Junge M P; **Johansen E**
 CORPORATE SOURCE: Department of Genetics and Microbiology, Chr. Hansen A/S,
 DK-2970 Horsholm, Denmark.. KimIb.Soerensen@dk.chr-
 hansen.com
 SOURCE: Applied and environmental microbiology, (2000 Apr) 66 (4)
 1253-8.
 Journal code: 7605801. ISSN: 0099-2240.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
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 Entered Medline: 20000511

AB We have previously reported the construction of a food-grade cloning
 vector for Lactococcus using the ochre suppressor, supB, as the selective
 marker. This vector, pFG1, causes only a slight growth inhibition in the
 laboratory strain MG1363 but is unstable in the industrial strains tested.
 As supB suppresses both amber and ochre stop codons, which are present in
 82% of all known lactococcal genes, this undesirable finding may result
 from the accumulation of elongated mistranslated polypeptides. Here, we
 report the development of a new food-grade cloning vector, pFG200, which
 is suitable for overexpressing a variety of genes in industrial strains of
 Lactococcus lactis. The vector uses an amber suppressor, supD, as
 selectable marker and consists entirely of Lactococcus DNA, with the
 exception of a small polylinker region. Using suppressible pyrimidine
 auxotrophs, selection and maintenance are efficient in any pyrimidine-free
 medium including milk. Importantly, the presence of this vector in a
 variety of industrial strains has no significant effect on the growth rate
 or the rate of acidification in milk, making this an ideal system for
 food-grade modification of industrially relevant L. lactis strains. The
 usefulness of this system is demonstrated by overexpressing the pepN gene
 in a number of industrial backgrounds.

(FILE 'HOME' ENTERED AT 07:04:37 ON 28 JUN 2004)

FILE 'MEDLINE, EMBASE, BIOSIS, CAPLUS' ENTERED AT 07:05:03 ON 28 JUN 2004

L1 23010 S (SORENSEN, ?)/IN,AU
L2 38651 S (LARSEN, ?)/IN,AU
L3 12679 S (JOHANSEN, ?)/IN,AU
L4 6 S L1 AND L2 AND L3
L5 3 DUPLICATE REMOVE L4 (3 DUPLICATES REMOVED)
L6 73466 S L1 OR L2 OR L3
L7 1726 S (AMBER OR CUA) (S) SUPPRESSOR
L8 1726 S (AMBER OR CUA) (S) SUPPRESSOR
L9 343 S (AMBER OR CUA) (S) ANTICODON
L10 1860 S L8 OR L9
L11 16 S L10 AND L6
L12 24881 S LACTOCOCC? OR LACTIS
L13 12 S L11 AND L12
L14 6 DUPLICATE REMOVE L13 (6 DUPLICATES REMOVED)
L15 4 S L14 NOT L4
L16 5 S PFG100 OR PFG-100
L17 3 DUPLICATE REMOVE L16 (2 DUPLICATES REMOVED)
L18 5 S PFG200 OR PFG-200
L19 2 DUPLICATE REMOVE L18 (3 DUPLICATES REMOVED)
L20 0 S L19 NOT L5

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